

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
18 September 2003 (18.09.2003)

PCT

(10) International Publication Number
WO 03/076715 A2(51) International Patent Classification⁷: D21H FIN-33700 Tampere (FI). KÄSMÄ, Veli [FI/FT]; Lintuviidankatu 33 G 26, FIN-33340 Tampere (FI).

(21) International Application Number: PCT/FI03/00180

(74) Agent: TAMPEREEN PATENTTITOIMISTO OY; Hermiankatu 12 B, FIN-33720 Tampere (FI).

(22) International Filing Date: 11 March 2003 (11.03.2003)

(25) Filing Language: English

(81) Designated States (national): AE, AG, AL, AM, AT (utility model), AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE (utility model), EE, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK (utility model), SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

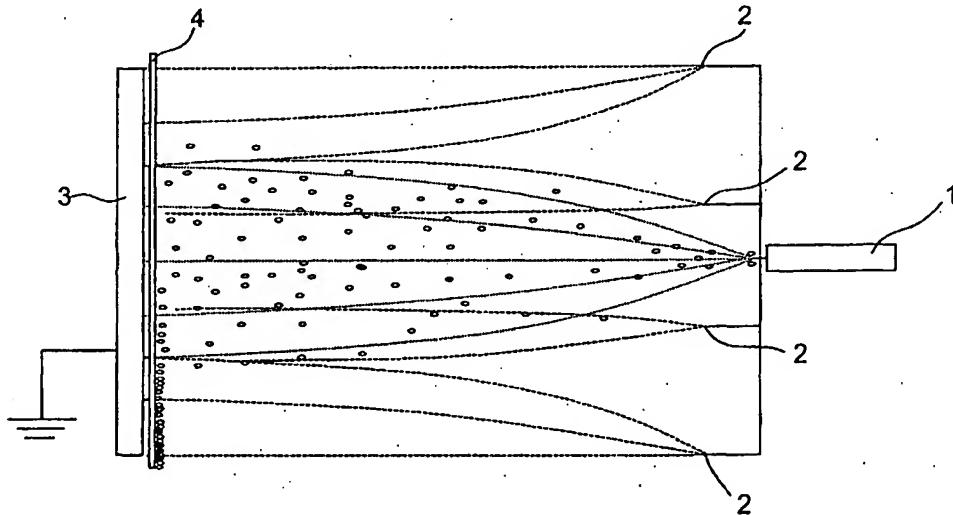
(30) Priority Data:
20020479 14 March 2002 (14.03.2002) FI
20021253 26 June 2002 (26.06.2002) FI

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: METHOD FOR TREATING POWDERY PARTICLES

WO 03/076715 A2

(57) Abstract: The invention relates to a method for a preliminary treatment of particles of a powder in a dry surface treatment process before applying the powder particles on a surface of a substrate by utilizing an electric field created by electrodes. The electrodes are located at opposite sides of the substrate in such a way that at least one first electrode is located at the side of the substrate to be coated, and at least one second electrode is located at the opposite side of the substrate. In the method of the invention, the particles of the powder are pre-charged before bringing them into the electric field.